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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: Improvements and Asphalting to Roads at Jayamuninagara in Kempegowda Ward No.01 of Yelahanka Sub Division

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	GSB	SIEVE ANALYSIS	One Test	171.12	1	1
2	WMM	Sieve Analysis	One Test	239.92	2	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
3	DBM	SIEVE ANALYSIS	One Test	57.7	1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral Aggregate	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1

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4	BC	SIEVE ANALYSIS	One Test	133.6	1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
5	BITUMEN	Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1
6	TACK COAT	Rate of spread	One Test		1	1

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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	CP-RW-2022-06-02-01 **Date: 07-04-22**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore
Project Name	:	Improvements and Asphalting to Roads at Jayamuninagara in Kempegowda Ward No.01 of Yelahanka Sub Division
Agency	:	Sri. AnjanKumar Y.N, No:456/500, Maheshwaramma Temple Street, Yelahanka Old Town, Bnagalore-560064.
Customer Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/ /2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-04-22
Type of Mix	:	GSB (Granular Sub Base)
Date of Test	:	05-04-22
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	996	996	9.96	90.04	80-100
26.5	1685	2681	26.81	73.19	55-90
9.5	1291	3972	39.72	60.28	35-65
4.75	1490	5462	54.62	45.38	25-55
2.36	1766	7228	72.28	27.72	20-40
0.425	1672	8900	89.00	11.00	10-25
0.075	1100	10000	100.00	0.00	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	21.56%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

* The results obtained are satisfactory as per standard requirements.

Note:-

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Quality Manager

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2022-06-02-01** **Date: 14-04-22**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore
Project Name	:	Improvements and Asphalting to Roads at Jayamuninagara in Kempegowda Ward No.01 of Yelahanka Sub Division
Agency	:	Sri. AnjanKumar Y.N, No:456/500, Maheshwaramma Temple Street, Yelahanka Old Town, Bnagalore-560064.
Customer Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/ /2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-04-22
Type of Mix	:	WMM (Wet Mix Macadam)
Date of Test	:	12-04-22
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	319	319	2.9	97.1	95-100
22.4	2301	2620	23.8	76.2	60-80
11.2	2210	4830	43.9	56.1	40-60
4.75	2253	7083	64.4	35.6	25-40
2.36	1621	8704	79.1	20.9	15-30
0.6	618	9322	84.7	15.3	8-22
0.075	1331	10653	96.8	3.2	0-5

* The results obtained are satisfactory as per standard requirements.

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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	CP-RW-2022-06-02-01 Date: 14-04-22
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore
Project Name	:	Improvements and Asphalting to Roads at Jayamuninagara in Kempegowda Ward No.01 of Yelahanka Sub Division
Agency	:	Sri. AnjanKumar Y.N, No:456/500, Maheshwaramma Temple Street, Yelahanka Old Town, Bnagalore-560064.
Customer Reference	:	BBMP/EE/YNK D/EPMT-15/W.O/ /2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-04-22
Type of Mix	:	WMM (Wet Mix Macadam)
Date of Test	:	12-04-22
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	316	316	2.9	97.1	95-100
22.4	2306	2622	23.8	76.2	60-80
11.2	2210	4832	43.9	56.1	40-60
4.75	2259	7091	64.5	35.5	25-40
2.36	1620	8711	79.2	20.8	15-30
0.6	620	9331	84.8	15.2	8-22
0.075	1331	10662	96.9	3.1	0-5

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Certificate No.: TC-5548

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	CP-RW-2022-06-02-01	**Date: 14-04-22**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Sub Division, BBMP, Bangalore	
Project Name	:	Improvements and Asphalting to Roads at Jayamuninagara in Kempegowda Ward No.01 of Yelahanka Sub Division	
Agency	:	Sri. AnjanKumar Y.N, No:456/500, Maheshwaramma Temple Street, Yelahanka Old Town, Bnagalore-560064.	
Customer Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/ /2021-22	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	12-04-22	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Date of Test	:	12-04-22	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.7	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.6	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	CP-RW-2022-06-02-01 Date: 25-04-22
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore
Project Name	:	Improvements and Asphalting to Roads at Jayamuninagara in Kempegowda Ward No.01 of Yelahanka Sub Division
Agency	:	Sri. AnjanKumar Y.N, No:456/500, Maheshwaramma Temple Street, Yelahanka Old Town, Bnagalore-560064.
Customer Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/ /2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-04-22
Type of Mix	:	DBM-Plant (Dense Bituminous Macadam)
Date of Test	:	23-04-22
Weight of Sample	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10 (grading -2)
37.5	0	0	0	100	100
26.5	262	262	5.24	94.76	90-100
19	350	612	12.24	87.76	71-95
13.2	450	1062	21.24	78.76	56-80
4.75	1750	2812	56.24	43.76	38-54
2.36	400	3212	64.24	35.76	28-42
0.3	1350	4562	91.24	8.76	7-21
0.075	250	4812	96.24	3.76	2-8
PAN	188	5000	0.00	0	0

* The results obtained are satisfactory as per standard requirements.

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	CP-RW-2022-06-02-01 **Date: 26-04-22**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore
Project Name	:	Improvements and Asphalting to Roads at Jayamuninagara in Kempegowda Ward No.01 of Yelahanka Sub Division
Agency	:	Sri. AnjanKumar Y.N, No:456/500, Maheshwaramma Temple Street, Yelahanka Old Town, Bnagalore-560064.
Customer Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/ /2021-22
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	23-04-22
Type of Mix	:	DBM (Dense Bituminous Mecadam)
Date of Test	:	23-04-22

The results of the tests conducted on the Dense Bituminous Macadam mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.42	11.82	9KN(Min)
2	Marshal flow at 60°C, mm	3.54	3.87	2-4
3	Percent air Voids	4.56	4.17	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.54	14.76	13-15
5	Percent Voids filled with Bitumen(VFB %)	68.98	70.28	65-75
6	Density, g/cc	2.42	2.40	–

* The results obtained are satisfactory as per standard requirements.

Note:-

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Certificate No.: TC-5548

TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	CP-RW-2022-06-02-01 **Date: 26-04-22**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore
Project Name	:	Improvements and Asphalting to Roads at Jayamuninagara in Kempegowda Ward No.01 of Yelahanka Sub Division
Agency	:	Sri. AnjanKumar Y.N, No:456/500, Maheshwaramma Temple Street, Yelahanka Old Town, Bnagalore-560064.
Customer Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/ /2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-04-22
Type of Mix	:	DBM(Dense Bitumnous Macadam)
Date of Test	:	23-04-22
Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.0	2.0	98.2	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	CP-RW-2022-06-02-01 Date: 03-05-22
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore
Project Name	:	Improvements and Asphalting to Roads at Jayamuninagara in Kempegowda Ward No.01 of Yelahanka Sub Division
Agency	:	Sri. AnjanKumar Y.N, No:456/500, Maheshwaramma Temple Street, Yelahanka Old Town, Bnagalore-560064.
Customer Reference	:	BBMP/EE/YNK D/EPMT-15/W.O/ /2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-05-22
Type of Mix	:	BC-Plant (Bituminous Concrete)
Date of Test	:	01-05-22
Oven Dry Weight	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	89	89	1.8	98.2	90-100
9.5	722	811	16.2	83.8	70-88
4.75	895	1706	34.1	65.9	53-71
2.36	579	2285	45.7	54.3	42-58
1.18	492	2777	55.5	44.5	34-48
0.6	503	3280	65.6	34.4	26-38
0.3	519	3799	76.0	24.0	18-28
0.15	462	4261	85.2	14.8	12-20
0.075	354	4615	92.3	7.7	4-10
PAN	385	5000	100	0.0	0

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	CP-RW-2022-06-02-01 **Date: 04-05-22**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore
Project Name	:	Improvements and Asphalting to Roads at Jayamuninagara in Kempegowda Ward No.01 of Yelahanka Sub Division
Agency	:	Sri. AnjanKumar Y.N, No:456/500, Maheshwaramma Temple Street, Yelahanka Old Town, Bnagalore-560064.
Customer Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/ /2021-22
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	01-05-22
Type of Mix	:	BC (Bituminous Concrete)
Date of Test	:	01-05-22

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.45	11.21	10KN(min)
2	Marshal flow at 60°C, mm	3.52	3.51	2-4
3	Percent air Voids	4.82	4.83	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.28	14.26	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.87	71.63	65-75
6	Density, g/cc	2.25	2.26	–

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	CP-RW-2022-06-02-01	Date: 13-05-22
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Sub Division, BBMP, Bangalore	
Project Name	:	Improvements and Asphalting to Roads at Jayamuninagara in Kempegowda Ward No.01 of Yelahanka Sub Division	
Agency	:	Sri. AnjanKumar Y.N, No:456/500, Maheshwaramma Temple Street, Yelahanka Old Town, Bnagalore-560064.	
Customer Reference	:	BBMP/EE/YNK D/EPMT-15/W.O/ /2021-22	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	12-05-22	
Type of Mix	:	BC (Bituminous Concrete)	
Date of Test	:	12-05-22	

SLno	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	471	472
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.80	5.60
4	Average percentage	%	5.7	

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

A.E.E

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Lab ID : CP-RW-2022-06-02-01 Date: 13-05-22

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 471

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	14.0	86.0	70-88
4.75	112	178	37.8	62.2	53-71
2.36	88	266	56.5	43.5	42-58
1.18	29	295	62.6	37.4	34-48
0.6	11	306	65.0	35.0	26-38
0.3	46	352	74.7	25.3	18-28
0.15	45	397	84.3	15.7	12-20
0.075	55	452	96.0	4.0	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	6	6	1.3	98.7	90-100
9.5	68	74	15.7	84.3	70-88
4.75	112	186	39.4	60.6	53-71
2.36	79	265	56.1	43.9	42-58
1.18	29	294	62.3	37.7	34-48
0.6	11	305	64.6	35.4	26-38
0.3	46	351	74.4	25.6	18-28
0.15	45	396	83.9	16.1	12-20
0.075	52	448	94.9	5.1	4-10

* The results obtained are satisfactory as per standard requirements.

Note:-

The results pertain to the samples received and tested.

All information Furnished by Customer/ Representative

Any correction in the report will make this report invalid.

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Samples will be disposed after 30 days from the date of issue of test certificate

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Authorized Signatory
Quality Manager

End of Report

Format No: CP/TF/01

TEST REPORT ON BITUMEN

Lab ID	:	**CP-RW-2022-06-02-01** **Date: 18-04-22**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore
Project Name	:	Improvements and Asphalting to Roads at Jayamuninagara in Kempegowda Ward No.01 of Yelahanka Sub Division
Agency	:	Sri. AnjanKumar Y.N, No:456/500, Maheshwaramma Temple Street, Yelahanka Old Town, Bnagalore-560064.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/ /2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-04-22
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-2021, IS: 1202-1220(1978) (Reaffirmed-2019)
Date of Test	:	16-04-22

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	64	60 to 70
2	Softening Point, °C	51.2	Min. 40°C
3	Ductility, cm	98	Min. 75cm
4	Flash point, °C	245	Min. 220°C
	Fire point, °C	272	

* The results obtained are satisfactory as per standard requirements.

Note:-

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****End of Report****

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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID	:	CP-RW-2022-06-02-01 **Date: 16-05-22**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore
Project Name	:	Improvements and Asphalting to Roads at Jayamuninagara in Kempegowda Ward No.01 of Yelahanka Sub Division
Agency	:	Sri. AnjanKumar Y N, No:456/500, Maheshwaramma Temple Street, Yelahanka Old Town, Bnagalore-560064.
Customer Reference	:	BBMP/EE/YNK D/EPMT-15/W.O/ /2021-22
Sample Condition	:	Satisfactory
Date of Receipt	:	14-05-22
Type of Mix	:	Tack coat
Date of Test	:	14-05-22

SLNo	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.803	0.771
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.023
6	Rate of spread of tack coat	Kg/sq m	0.256	0.256
7	Average	Kg/sq m	0.256	
8	Specified Limit	Kg/sq m	0.250 Kg/sq m	

* The results obtained are satisfactory as per standard requirements.

Note:-

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